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Acceptance Test Report
Briefing Print Enlarger
Part No. 1-023-E-001

DWG. NO. 1-023-A-613

REFERENCEFor Acceptance Test Procedure,
See 1-023-A-612

Declass Review by NGA.

See Page 11
11
8_____
Technician_____
EngineerSHEET 1 OF 11
DATE RELEASED

Acceptance Test Report
Briefing Print Enlarger
Part No. 1-023-L-001

SHEET 2 OF 11DWG. NO. 1-023-A-613

SERIAL NO. _____

DATE _____

PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.1	Initial Documentation					
	a. Prime Contract No.				a. _____	
	b. Mfr. Part No.				b. _____	
	c. Mfr. Serial No.				c. _____	
	d. Date of Mfr.				d. _____	
5.2	Visual and Pre-Operational Inspection General workmanship and appearance				If OK, mark OK. If not OK, list non-conformances.	
5.2.1	Main control panel					
5.2.1.1	MAIN power switch					
1	a. Primary power to enlarger unit				a. _____	
	b. Primary power to easel exhaustor				b. _____	
	c. Easel photometer not affected by MAIN power switch				c. _____	
5.2.1.1	POWER ON (pilot lamp)					
2	a. MAIN power switch on (lamp lights)				a. _____	
	b. Rotate cap (lamp dims)				b. _____	
5.2.1.1	VIEWER ON/OFF switch					
3	a. Switch functions (on & off)				a. _____	
5.2.1.1	LIQUID PUMPS button					
4	a. Both injection pumps function				a. _____	
	b. Interlocks set				b. _____	
	c. Interlocks released at end of drying cycle				c. _____	

Acceptance Test Report
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Part No. 1-023-E-001

SHEET 3 OF 11DWG. NO. 1-023-A-613

SERIAL NO. _____

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PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.2.1. 5	VERTICAL MOTION switch					
	a. Up position (transport moves up)				a. _____	
	b. Center position (transport stops)				b. _____	
	c. Down position (transport moves down)				c. _____	
	d. Top limit switch (stops movement when bottom edge of film is no more than 1/4 inch below scribed line on viewer)				d. _____	
	e. Lower limit switch (stops movement when top edge of film is 1/2" from gate center)				e. _____	
5.2.1. 6	VERTICAL SPEED dial					
	a. Rotated CW (Speed of transport unit is increased)				a. _____	
	b. Switch is inoperative (after the LIQUID PUMPS button is depressed)				b. _____	
	c. Vertical (Y) coordinate functions				c. _____	
5.2.1. 7	DIRECTION switch					
	a. Controls direction of wind				a. _____	
5.2.1. 8	THD/RUN switch					
	a. THD position (torque motors off) and brakes on at low drag torque				a. _____	
	b. RUN position-supply and take-up spindles respond to hand control				b. _____	
5.2.1. 9	Numbers show				_____	

Acceptance Test Report
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SHEET 4 OF 11DWG. NO. 1-023-A-613

SERIAL NO. _____

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PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.2.2	Sub-Control panel					
5.2.2. 1	Lens locking lever					
	a. Up position (lens not locked)				a. _____	
	b. Up position (LOCK LENS light on)				b. _____	
	c. Down position (LOCK LENS light off)				c. _____	
	d. Down position (lens locked in)				d. _____	
5.2.2. 2	Easel locking lever					
	a. Down position (easel not locked)				a. _____	
	b. Down position (LOCK EASEL light comes on)				b. _____	
	c. Up position (LOCK EASEL light goes off)				c. _____	
	d. Up position (easel is locked)				d. _____	
5.2.2. 3	Timer Control box (calibration)				Not to exceed range of 4% of avg. of 5 exposures	
	a. Center dial	Individual Reading ±5%			1 2 3 4 5	
	1. 3 sec. exposure				a.1 _____	
	2. 8 sec. exposure				a.2 _____	
	b. Upper dial					
	1. 30 sec.				b.1 _____	
	2. 80 sec.				b.2 _____	
5.2.2. 4	Focus condenser indicator lamp operation					
	a. "A" condenser in lamphouse				a. _____	
	b. "B" condenser in lamphouse				b. _____	

SHEET 5 OF 11

Acceptance Test Report
 Briefing Print Enlarger
 Part No. 1-023-E-001

DWG. NO. 1-023-A-613

SERIAL NO. _____

DATE _____

PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.2.2. 5	FILTER WHEEL POSITION push buttons					
	a. Red button depressed (red attenuator control effective)				a. _____	
	b. Green button depressed (green attenuator control effective)				b. _____	
	c. Blue button depressed (blue attenuator control effective)				c. _____	
	d. White button depressed - color exposure cycle conditions established				d. _____	
5.2.2. 6	POWER switch					
	a. Controls power to timer				a. _____	
5.2.2. 7	TIMING/CONSTANT switch					
	a. CONSTANT (lamp remains on)				a. _____	
	b. TIMING (lamp operates on timer)				b. _____	
5.2.2. 8	LAMP INTENSITY switch					
	a. Switch increases intensity of printing lamp				a. _____	
	b. Switch decreases intensity of printing lamp				b. _____	
5.2.2. 9	PHOTOMETER push button					
	a. If depressed after enlarger lamp is on (probe light off and meter light on)				a. _____	
	b. If enlarger lamp is off (photometer returns to standby)				b. _____	

SHEET 6 OF 11

Acceptance Test Report
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DWG. NO. 1-023-A-613

SERIAL NO. _____

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PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.2.3	Easel drive assembly					
5.2.3.1	Fine adjustment knob					
	a. Pushed in (engaged in detent)				a. _____	
	b. Pulled out (disengaged)				b. _____	
	c. Can fine adjust easel position				c. _____	
5.2.3.2	Motor control switch					
	a. Pushed right (easel moves away from lens)				a. _____	
	b. Pushed left (easel moves toward lens)				b. _____	
	c. Small window (displays OAC)				c. _____	
	d. Limit switch (stops motor at ends of travel)				d. _____	
5.2.4	Easel & exhauster unit					
	a. Vacuum operates properly				a. _____	
	b. Exhauster rotates proper direction				b. _____	
	c. Check for visual damage to easel				c. _____	
	d. Check for visual damage to dark screen				d. _____	
5.2.5	Lamphouse					
	a. Operation of gate (open & closed)				a. _____	
	b. Clean filters (optical & air)				b. _____	
	c. Check for damage to filters				c. _____	
	d. Filters easily changeable				d. _____	
	e. Vapor exhaust blower functions				e. _____	

SHEET 7 OF 11

Acceptance Test Report
Briefing Print Enlarger
Part No. 1-023-E-001

DWG. NO. 1-023-A-613

SERIAL NO. _____

DATE _____

PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.2.6	Guide rollers (2)					
	a. Check for surface defects				a. _____	
	b. Check freedom of rotation				b. _____	
	c. Range of slat motion				c. _____	
	d. Roundness				d. _____	
5.3	Safety Inspection					
	a. Equipment electrically grounded				a. _____	
	b. Areas hazardous to product				b. _____	
	c. Operator hazards				c. _____	
5.5.	Operational tests					
2 1 5.5.1	Tracking/scratch tests					
	a. 70mm Type 8403 (scratch & tracking)				a. _____	
	b. 70mm Type 3404 (tracking)				b. _____	
	c. 5-inch Type 3404 (scratches & tracking)				c. _____	
	d. 9-1/2 inch Type 8403 (scratches & tracking)				d. _____	
	e. 9-1/2 inch Type 3404 (tracking)				e. _____	
5.5.1.	FILM TENSION switch (operation)				_____	
3						
5.5.1.	HORIZONTAL control handle					
4						
	a. CW direction (film moves left to right)				a. _____	
	b. Intermediate position (film stops)				b. _____	
	c. CCW direction (film moves right to left)				c. _____	
	d. Horizontal (X) coordinate counter functions				d. _____	
	Horizontal (Y) coordinate counter functions				e. _____	

Adjust image to check coordinate counters accuracy.

Acceptance Test Report
Briefing Print Enlarger
Part No. 1-023-E-001

SHEET 8 OF 11DWG. NO. 1-023-A-613

SERIAL NO. _____

DATE _____

PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.5.2	Gate impression test				_____	
5.5.3. 1	Drying test 9-1/2" Type 3404					
	a. Adequate fluid delivery				a. _____	
	b. Drying cycle adequate				b. _____	
5.5.3. 2	Drying test 9-1/2" Type 2427 or 8430					
	a. Adequate fluid delivery				a. _____	
	b. Drying cycle adequate				b. _____	
5.5.4	Lamphouse temperature test (F lens/condenser)				_____	
5.5.4. 1	9-1/2 inch, Type 3404					
	a. Check for heat damage				a. _____	
5.5.5. 1	Uniformity tests (each specified OAC)				Easel photometer measurement	
	a. "A" Lens & Condenser				60 OAC Diff. 70 OAC	
	Top right corner				_____	
	Bottom right corner				_____	
	Center				_____ Ref. _____	
	Top left corner				_____	
	Bottom left corner				_____	
	b. "B" Lens & Condenser				55 OAC Diff. 70 OAC	
	Top right corner				_____	
	Bottom right corner				_____	
	Center				_____ Ref. _____	
	Top left corner				_____	
	Bottom left corner				_____	

Acceptance Test Report
Briefing Print Enlarger
Part No. 1-023-E-001

SHEET 9 OF 11DWG. NO. 1-023-A-613

SERIAL NO. _____

DATE _____

PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.5.5. 1	Uniformity tests (each specified OAC)				Easel photometer measurement	
	c. "C" Lens & Condenser				62 OAC Diff.	
	Top right corner				_____	
	Bottom right corner				_____	
	Center				_____ Ref.	
	Top left corner				_____	
	Bottom left corner				_____	
	d. "D" Lens & Condenser				62 OAC	
	Top right corner				_____	
	Bottom right corner				_____	
	Center				_____ Ref.	
	Top left corner				_____	
	Bottom left corner				_____	
	e. "E" Lens & Condenser				62 OAC	
	Top right corner				_____	
	Bottom right corner				_____	
	Center				_____ Ref.	
	Top left corner				_____	
	Bottom left corner				_____	
	f. "F" Lens & Condenser				62 OAC Diff.	
	Top right corner				_____	
	Bottom right corner				_____	
	Center				_____ Ref.	

Acceptance Test Report
Briefing Print Enlarger
Part No. 1-023-L-001

SHEET 10 OF 11DWG. NO. 1-023-A-613

SERIAL NO. _____

DATE _____

PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
5.5.6. 1	Top left corner				_____	
	Bottom left corner				_____	
	Resolution tests (each specified OAC)				Resolution value	
	a. "A" Lens & Condenser				57 OAC 60 OAC 65 OAC 70 OAC 80 OAC	
	Top target				_____	
	Bottom target				_____	
	Center target				_____	
	Left target				_____	
	Right target				_____	
	b. "B" Lens & Condenser				50 OAC 55 OAC 62 OAC 70 OAC 80 OAC	
	Top target				_____	
	Bottom target				_____	
	Center target				_____	
	Left target				_____	
	Right target				_____	
	c. "C" Lens & Condenser					
	Top target				_____	
	Bottom target				_____	
	Center target				_____	
	Left target				_____	
	Right target				_____	

SHEET 11 OF 11

Acceptance Test Report
Briefing Print Enlarger
Part No. 1-023-E-001

DWG. NO. 1-023-A-613

SERIAL NO. _____

DATE _____

PROC. REF.	TEST	UNIT	REQUIREMENT		TEST RESULTS	INIT.
			MIN.	MAX.		
	d. "D" Lens & Condenser				50 OAC 55 OAC 62 OAC 70 OAC 80 OAC	
	Top target				_____	
	Bottom target				_____	
	Center target				_____	
	Left target				_____	
	Right target				_____	
	e. "E" Lens & Condenser					
	Top target				_____	
	Bottom target				_____	
	Center target				_____	
	Left target				_____	
	Right target				_____	
	f. "F" Lens & Condenser					
	Top target				_____	
	Bottom target				_____	
	Center target				_____	
	Left target				_____	
	Right target				_____	
5.5.7	Photographic test					
5.5.8	"C" Lens & Condenser					
	a. K. Bromide F-2 density				a. _____	
<i>Coordinate Measuring System - x+y - within 1% of actual sample movement in mm, or within one count.</i>						